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PATENT COOPERATION TREATY

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REC'D 15 SEP 2004

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT
(PCT Article 36 and Rule 70)

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| Applicant's or agent's file reference 17781 PCT - SKH | FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/PEA/416) | |
| International application No. PCT/DK 03/00433 | International filing date (day/month/year) 24.06.2003 | Priority date (day/month/year) 24.06.2002 |
| International Patent Classification (IPC) or both national classification and IPC C12N15/10 | | |
| Applicant HD DESIGN AS et al. | | |



- This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 5 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

 These annexes consist of a total of 3 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the opinion
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

| | |
|---|---|
| Date of submission of the demand 07.01.2004 | Date of completion of this report 14.09.2004 |
| Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 | Authorized Officer Gonzalez Davila, J-C Telephone No. +49 89 2399-2767  |

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. **PCT/DK 03/00433**

I. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

Description, Pages

1-14 as originally filed

Claims, Numbers

1-10 received on 22.06.2004 with letter of 22.06.2004

Drawings, Sheets

1/4-4/4 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:
- ☐ the drawings, sheets:

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5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary: _____

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

| | | |
|-------------------------------|-------------|------|
| Novelty (N) | Yes: Claims | 1-10 |
| | No: Claims | |
| Inventive step (IS) | Yes: Claims | 1-10 |
| | No: Claims | |
| Industrial applicability (IA) | Yes: Claims | 1-10 |
| | No: Claims | |

2. Citations and explanations

see separate sheet

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EXAMINATION REPORT - SEPARATE SHEET**

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Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Document US-A-5154 382 describes a rotatable link, comprising a pipe, two first objects each having a bore, a second object having a bore, and an attachment means extending through said bores and, in said order, assembling the first object, the second object and a first object into a unit.
2. Claim 1 differs therefrom in that the two first objects are secured to the pipe on a part of the area of a rim of the pipe with contact to the two first objects, thereby providing a mechanical tension in the pipe which is transferred as compressive forces in the longitudinal direction of the attachment means to the second object, which forms a link part rotatable relative to the two first objects with an axis of rotation along the longitudinal axis of the attachment means.
3. The above features are neither known from, nor rendered obvious in respect of prior art so that claim 1 therefore meets the requirements of article 33(2) and 33(3) PCT.
4. Claims 2 to 8 contain advantageous modifications of the inventive idea embodied in claim 1 and also meet the requirements of articles 33(2) and 33 (3) PCT.
5. Document US-A-5154 382 discloses a method of manufacturing a rotatable link, comprising assembling a unit consisting of two first objects each having a bore, a second object having a bore, and an attachment means passed through said bores and, in said order, assembles the first object, the second object and the other first object.
6. Claim 9 differs therefrom in that the method comprises securing the unit to a pipe on a part of the area of a rim of the pipe with contact to the two first objects, thereby providing a mechanical tension in the pipe which is transferred as compressive forces in the longitudinal direction of the attachment means to the second object, which forms a link part rotatable relative to the two first objects with an axis of rotation along the longitudinal axis of the attachment means.
7. The above features are neither known from, nor rendered obvious in respect of

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prior art so that claim 9 also meets the requirements of article 33(2) and 33(3) PCT.

8. Claim 10 contain advantageous modifications of the inventive idea embodied in claim 9 and also meet the requirements of articles 33(2) and 33 (3) PCT.

Additional observations

1. The description is not in conformity with the claims as required by Rule 5.1(a)(iii) PCT.
2. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document US-A-5154 382 is not mentioned in the description, nor is this document identified therein.

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PATENT CLAIMS

1. A rotatable link (1), comprising a pipe (2), two first objects (3) each having a bore, a second object (4) having a bore, and an attachment means (5) extending through said bores and assembling, in said order, a first object (3), the second object (4) and a first object (3) into a unit (71), wherein the two first objects (3) are secured to the pipe (2) on a part of the area of a rim (6) for the pipe (2), thereby providing a mechanical tension in the pipe (2) which is transferred as compressive forces in the longitudinal direction of the attachment means (5) to the second object (4), which forms a link part rotatable relative to the two first objects with an axis of rotation along the longitudinal axis of the attachment means (5).
2. A rotatable link (1) according to claim 1, additionally comprising one or more pairs of apertured discs (8), wherein it applies to each pair of apertured discs (8) that the apertured discs (8) of a pair are disposed on their respective sides of the second object (4) between this and a first object (3) and with the attachment means (5) through the hole in the apertured discs (8).
3. A rotatable link (1) according to claim 2, wherein the number of pairs of apertured discs (8) is two or more, such as three or more, such as four or more.
4. A rotatable link (1) according to claims 2-3, wherein apertured discs (8) are made of a material selected from the following substances: plastics and metal, such as brass and steel.
5. A rotatable upright (10), comprising a rotatable link (1) according to any one of the preceding claims on which a plate (11) is secured on the rotatable link part.

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6. A rotatable upright (10) according to claim 5, comprising a handle (12) secured to the plate (11).
- 5 7. A rotatable upright (10) according to any one of claims 5-6, comprising a rod (13), said pipe (2) being mounted down along said rod, with the longitudinal direction of the pipe (2) being essentially in parallel with the longitudinal direction of the rod (13).
- 10 8. Use of a rotatable upright (10) according to any one of claims 5-7 for the positioning thereon of an object (14), such as a piece of hardware.
9. A method of manufacturing a rotatable link (1), comprising the steps of:
- 15 - assembling a unit (71) consisting of two first objects (3) each having a bore, a second object (4) having a bore, and an attachment means (5) in that the attachment means (5) is passed through said bores and, in said order, assembles a first object (3), the second object (4) and a first object (3),
- 20 - securing the unit (71) to a pipe on a part of the area of a rim (6) of the pipe with contact to the two first objects (3).
- 25 10. A method according to claim 9, wherein one or more pairs of apertured discs (8) are moreover incorporated in the unit, and wherein it applies to each pair of apertured discs (8) that the apertured discs (8) of a pair are disposed on their respective sides of the second object (4) between this and a first object (3) and with the attachment means (5) through the hole in the apertured discs (8).